

Amendments to the Claims:

The listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims:

1. (Currently Amended) A method for purifying contaminated sulfuryl fluoride containing water and at least one contaminant selected from the group consisting of hydrogen fluoride, hydrogen chloride, sulfur dioxide and organic impurities, said method comprising a sorptive purification step consisting of contacting the contaminated sulfuryl fluoride with an alkali metal fluoride and at least one sorbent selected from the group consisting of activated carbon, silica gel and zeolite, and recovering a purified sulfuryl fluoride from which water has been removed.
2. (Original) A method according to claim 1, wherein the contaminated sulfuryl fluoride contains hydrogen fluoride, hydrogen chloride and sulfur dioxide.
3. (Original) A method according to claim 1, wherein the contaminated sulfuryl fluoride contains dichloroethane.
4. (Original) A method according to claim 1, wherein the contacting with an alkali metal fluoride is carried out at a temperature ranging from -20°C to 150°C .
5. (Original) A method according to claim 4, wherein the contacting is carried out at a temperature ranging from 0°C to 30°C .
6. (Original) A method according to claim 1, wherein the method is carried out immediately after synthesis of the contaminated sulfuryl fluoride.

7. (Original) A method according to claim 1, wherein the method is carried out immediately prior to or during use of the purified sulfuryl fluoride.

8. (Original) A method according to claim 1, further comprising regenerating used alkali metal fluoride laden with said at least one contaminant removed from the sulfuryl fluoride.

9. (Original) A method according to claim 1, wherein the alkali metal fluoride comprises potassium fluoride.

10. (Withdrawn) A sorbent kit comprising separate portions of an alkali metal fluoride and at least one adsorbent selected from the group consisting of activated carbon, silica gel and zeolites.

11. (Previously Presented) A method according to claim 1, wherein the alkali metal fluoride and the sorbent are mixed together.

12. (Previously Presented) A method according to claim 1, wherein the alkali metal fluoride and the sorbent are separate from each other.

13. (Previously Presented) A method according to claim 1, wherein the contaminated sulfuryl fluoride is contacted with an adsorbent bed comprising both the alkali metal fluoride and the sorbent.

14. (Previously Presented) A method according to claim 1, wherein the alkali metal fluoride and the sorbent form an adsorbent bed comprising a first sorbent layer, a layer of alkali metal fluoride formed over the first sorbent layer, and a second sorbent layer formed over the layer of alkali metal fluoride.

15. (Previously Presented) A method according to claim 13, wherein the step of contacting comprises passage of the contaminated sulfuryl fluoride through the adsorbent bed.

16. (Previously Presented) A method according to claim 1, wherein the contaminated sulfonyl fluoride is simultaneously contacted with the alkali metal fluoride and the at least one sorbent.

17. (Previously Presented) The method according to claim 1, wherein the contaminated sulfonyl fluoride comprises hydrogen fluoride, hydrogen chloride and sulfur dioxide and the purified sulfonyl fluoride is substantially free of hydrogen fluoride, hydrogen chloride and sulfur dioxide.